HP Kayak XM600 *Series 2* Minitower PC Workstations

XM600 Series 1 or Series 2?

Look at the label on the side or rear of the PC Workstation:

	XM600 Series 1	XM 600 Series 2
Identified as	"Kayak XM600"	"Kayak XM600 Series 2"
Product numbers	Any Dxxxx PxxxxN up to P2189N PxxxxT up to P2189T	P2190N or higher P2190T or higher

This chapter deals exclusively with the XM600 *Series 2*.

Models and Accessories

Product Number[1]	Cache Memory	Std. RAM	Hard Drive	Video Controller	Multi-media	LAN
HP Kayak XM600 *Series 2* PC Workstation						
HP Kayak XM600 866 MHz - 133 FSB[2] (CPL: 11/2000▶)						
P2190N and P2190T **P2192N**	Pentium III with i256 KB of L2 cache memory	128 MB SDRAM 133 MHz non-ECC	9.1 GB SCSI 7.2 krpm 20 GB Ultra ATA/66 7.2 krpm	Matrox Millennium G400-Dual 16 MB video memory fitted	48✕ IDE CD-ROM	HP 10/100 BT PCI
HP Kayak XM600 1000 MHz - 133 MHz FSB (CPL: 11/2000▶)						
P2195N	Pentium III with i256 KB of L2 cache memory	128 MB SDRAM 133 MHz non-ECC	18 GB 7.2 krpm SCSI	Elsa Synergy II, 32 MB SGRAM video memory fitted	48✕ IDE CD-ROM	HP 10/100 BT PCI

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Product Number[1]	Cache Memory	Std. RAM	Hard Drive	Video Controller	Multi-media	LAN
HP Kayak XM600 800 MHz - 133 MHz FSB (CPL: 11/2000▶)						
P2203N	Pentium III with i256 KB of L2 cache memory	128 MB SDRAM 133 MHz non-ECC	20 GB Ultra ATA/66 7.2 krpm	Matrox Millennium G400-Dual 16 MB video memory fitted	48✗ IDE CD-ROM	HP 10/100 BT PCI

HP Kayak XM600 Series 2 (CPL: 11/2000 ▶)	
P2197AV	V-Exp Base Model IDE
P2199AV	V-Exp Base Model SCSI

1. Unless otherwise mentioned, the operating system for the HP Kayak XM600 Series 2 Minitower PC Workstations is Windows 2000.
2. FSB = Front Side Bus

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Supported Accessories

Memory Upgrades

RDRAM 64 MB PC700 non-ECC main memory	D9500A
RDRAM 128 MB PC700 non-ECC main memory	D9502A
RDRAM 256 MB PC700 non-ECC main memory	D9503A
RDRAM 64 MB PC800 ECC main memory	D9504A
RDRAM 128 MB PC800 ECC main memory	D9506A
RDRAM 256 MB PC800 ECC main memory	D9507A
RDRAM 512 MB PC800 ECC main memory	D9508A

Processors (Socket)

Intel Pentium III 800 MHz, 133MHz FSB, 256 KB cache	P2285A
Intel Pentium III 866 MHz, 133MHz FSB, 256 KB cache	P2286A
Intel Pentium III 933 MHz, 133MHz FSB, 256 KB cache	P2287A

Mass Storage—Hard Disk Drives

10 GB Ultra ATA/66 hard disk, 5.4k rpm	D9623A
15.0 GB Ultra ATA/66 hard disk, 7.2k rpm	D7517A
30.0 GB Ultra ATA/66 hard disk, 7.2k rpm	D9804A
9.1 GB Ultra 2/3 SCSI hard disk, 7.2k rpm	D6938C
9.1 GB Ultra 2/3 SCSI hard disk, 10k rpm	D8608B
18 GB Ultra 2/3 SCSI hard disk, 10k rpm	D8609B
5.25-inch to 3.5-inch **HDD tray** (for installing 3rd or 4th HDD)	P2283A

Removable Mass Storage

48X max-speed IDE CD-ROM drive (single)	D9444A
8x Video IDEO DVD-ROM drive	D7521A
4X IDE CD-Writer Plus	D9524A

Input Devices

HP Windows® keyboard	C4735A
HP multimedia keyboard	C4742A
HP standard 2-button mini-din mouse	C3751B
HP mouse with scrolling wheel	C4736A
HP cordless scrolling mouse	C4740A

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Security

HP Master Pass Key System kit	D6655B
HP Master Pass Key	D6658B
HP Locks x50 for Master Pass Key System	D6659A
HP ProtectTools Smart Card Reader kit	D8436A

LAN Interfaces

HP 10/100 PCI Ethernet Adapter (single)	D7508A
HP 10/100 PCI Ethernet Adapter (pack of 10)	D7509A
HP 3COM FastEtherlink XL 3C905C-TX PCI NIC[1] (single)	D7522A
HP 3COM FastEtherlink XL 3C905C-TX PCI NIC[2] (pack of 10)	D7523A
HP Intel Pro/100+ Management Adapter (single)	D7506A
HP Intel Pro/100+ Management Adapter (pack of 10)	D7507A

Adapters

Ultra II SCSI adapter card	D9663A
Ultra 160 SCSI adapter card	P1969A

Graphics Cards

Matrox Millennium G400-Dual graphics card	D9521A
Elsa Synergy II graphics card	D9522A
Elsa Gloria II graphics card	D9509A

Graphics Memory

8 MB SGRAM SODIMM for Matrox G200/250 AGP graphics card	D9527A

Audio and Multimedia

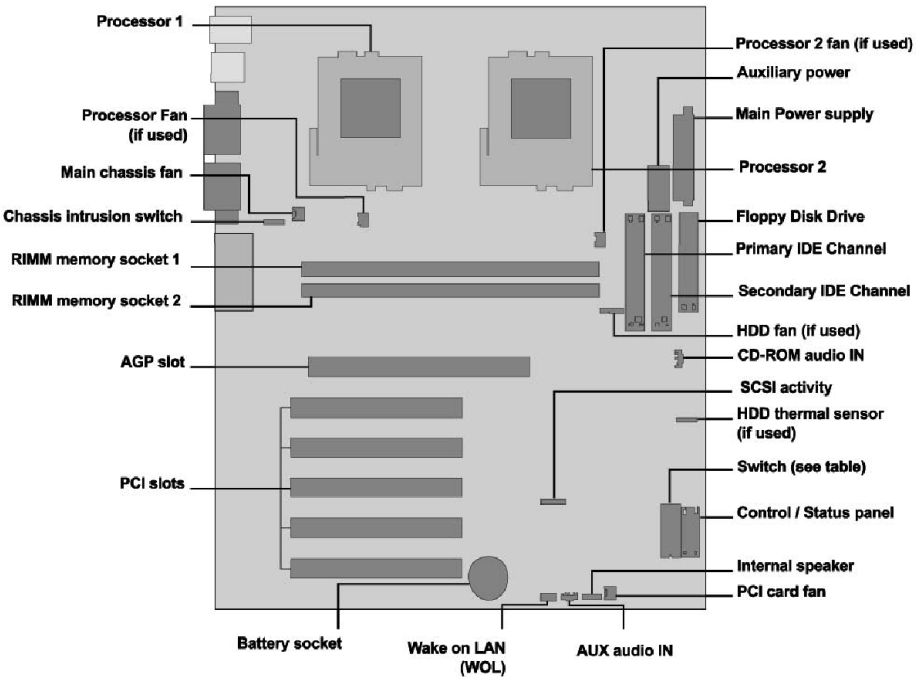|	
Labtech amplified speakers (10 WRMS) (single)	D4545A
Labtech amplified speakers (4 WRMS) (single)	D6861A
Standard headset	D8387A

Miscellaneous

USB Hub accessory kit	D6804A

1.   NIC = Network Internet Connector
2.   NIC = Network Internet Connector

System Board Connectors, BIOS, and Memory

Processor 1
Processor Fan (if used)
Main chassis fan
Chassis intrusion switch
RIMM memory socket 1
RIMM memory socket 2
AGP slot
PCI slots
Battery socket
Wake on LAN (WOL)
AUX audio IN

Processor 2 fan (if used)
Auxiliary power
Main Power supply
Processor 2
Floppy Disk Drive
Primary IDE Channel
Secondary IDE Channel
HDD fan (if used)
CD-ROM audio IN
SCSI activity
HDD thermal sensor (if used)
Switch (see table)
Control / Status panel
Internal speaker
PCI card fan

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System Board Switches

Switch	Default	Function
1	OFF	Reserved 1-5. **Do Not Change Default Settings.**
2	OFF	
3	OFF	
4	OFF	
5	OFF	
6		Disables keyboard power-on.
	ON	**Enables keyboard power-on.**
7	OFF	**Enables normal mode.**
		Enables the BIOS recovery mode at next boot.
8	OFF	**Retains CMOS memory.**
		Clears CMOS memory at next boot.
9	OFF	**Enables User and System Administrator passwords.**
		Clears the passwords at next boot.
10	ON	Selects the chassis type. **ON = Minitower**.
		OFF = Desktop.

BIOS History

For the latest BIOS, the flasher utility program, and the BIOS history refer to the HP World Wide Web site. The BIOS is in the form IC.xx.yy.zz

yy= BIOS version number
zz = is the selected language to be downloaded

Installing a Dual Processor / Replacing a Processor

HP Kayak XM600 Series 2 Desktop PC Workstations are supplied with a Pentium III processor and an integrated VRM (Voltage Regulator Module) on the system board. A separate VRM is not required.

Single processor models can be upgraded to dual processor systems by installing a second processor accessory in the vacant processor socket.

The second processor must be a processor of the same type, speed and level-2 cache memory capacity as the first.

After installing a second processor in a Windows 2000 Workstation PC, configure the system using the Windows Control Panel.

NOTE: The processor type and speed is automatically recognized by the BIOS. This means that no particular switch setting changes are required.

Main Memory

The HP Kayak XM600 Series 2 has two available RIMM sockets (RIMM0 and RIMM1) on the system board. If RIMM1 socket is unused, it ***must*** contain a "**RDRAM Continuity Module**".

Memory upgrades are available in 64 MB, 128 MB or 256 MB ECC or non-ECC RDRAM modules.

When upgrading memory, ensure that:

❐ Modules should be first installed in RIMM0 socket, then RIMM1.
❐ If RIMM1 socket is not used, install an "RDRAM Continuity Module".

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Mass Storage Device Guide Rails

Attached on the side of the front access cage, additional guide rails are available for mass storage device installations. Depending on the device to be installed, dedicated guide rails are required and are easily recognized by their distinct size and color.

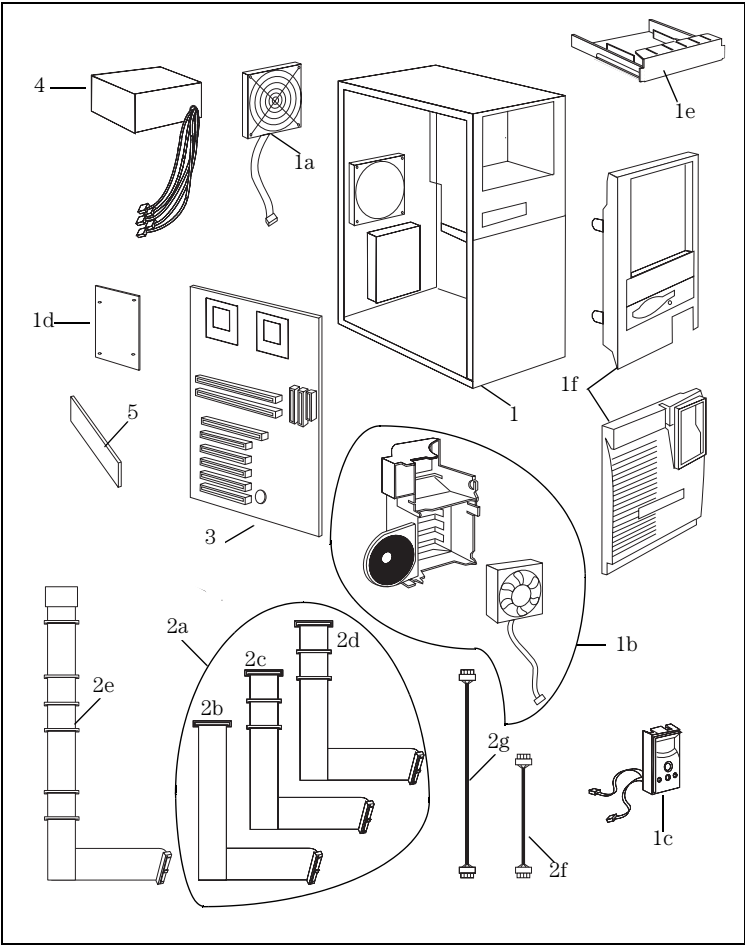The following table indicates the device, location, and required rails.

Device to be Installed	Location	Required Rails	Installing the Rails
3.5-inch device (hard disk drive)	3.5-inch internal shelf (two shelves)	Short blue left and right rails	Insert the guide rail labeled "L" on the left-hand side (cable connectors facing towards you and positioned at the bottom), and the guide rail "R" on the right-hand side of the hard disk drive.
5.25-inch device (CD-ROM, etc.)	5.25-inch front access cage shelf	Long green rails	There is no specific side to which these guides must be installed. However, they must be inserted in the two holes located at the bottom of the drive.
Third or fourth 3.5-inch hard disk drive			Hard disk drive is mounted on the 5.25-inch hard disk drive tray (accessory PN P2283A) and secured to the tray using the supplied four screws.
3.5-inch device (zip drive, etc.)		Short green left and right rails	Carefully break off the metal plate from the chassis. Insert the guide rail labeled "L" on the left-hand side (cable connectors facing towards you and positioned at the top), and the guide rail "R" on the right-hand side of the hard disk drive.

Parts and Part Numbers

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Parts List

Item	Description		Replacement Part Number	Exchange Part Number
1	Chassis assembly (including top cover):		5065-2547	—
	a Main fan assembly		5065-0483	—
	b I/O board, fan and speaker assembly		5065-2573	—
	c LCD status panel		5064-9162	—
	d CPU bracket		5002-6265	—
	e 5.25-inch to 3.5-inch HDD adapter tray		5002-6267	—
	f Support kit (only two items are shown in the graphic), including:	Qty	5065-0433	—
	• HP logo XM600	1		
	• bumper feet	4		
	• cover screws	2		
	• anti-intrusion switch	1		
	• HDD thermal sensor	1		
	• system board bracket and screw	1		
	• upper front bezel (*shown in graphic*)	1		
	• lower front bezel (*shown in graphic*)	1		
	• 5 ¼-inch filler panel, 3½-inch floppy panel, 3½-inch cover filler, spare I/O panel	1		
	• two pair of 5¼-inch long green guide rails	2		
	• one pair 3½-inch L&R HDD short blue guide rails	1		
	• one pair 3½-inch L&R FDD short green guide rails	1		
	Not shown in graphic.			
	Cover lock assembly		5064-2645	—
	Rear panel connector gasket		5002-6262	—
2	Cables:			
	a IDE cable kit (HDD, CD-ROM, FDD)		5064-9764	—
	b FDD IDE cable		5184-1516	—
	c HDD IDE cable		5184-1503	—
	d CD-ROM IDE cable		5184-3874	—
	e SCSI cable, U2		5184-1501	—
	SCSI cable, U160		5184-3869	—
	f SCSI LED cable for U2 SCSI card		5183-9401	—
	SCSI LED cable for U160 SCSI card		5184-3868	—
	g CD-ROM audio cable		5182-1857	—
3	System board		See system board parts list	
4	Power supply unit, PFC		0950-3960	—
5	RDRAM Continuity Module		D8660-63001	—

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Parts List

Item	Description	Replacement Part Number	Exchange Part Number
	Available Parts that are not shown in the graphic on page 9.		
	Floppy disk drive (1.44)	D2035-60293	—
	Ultra 2 SCSI card (Symbios 8952U)	5064-7466	—
	Ultra160 SCSI card (Symbios 8955U)	5184-3856	—
	Standard hard disk drive[1]		
	10 GB IDE Ultra ATA/66 5.4k rpm	D9805-63001	D9805-69001
	15 GB IDE Ultra ATA/66 7.2k rpm	D9803-63003	D9803-69003
	20 GB IDE Ultra ATA/100 7.2k rpm	P1640-63001	P1640-69001
	30 GB IDE Ultra ATA/66 7.2k rpm	D9804-63003	D9804-69003
	40 GB IDE Ultra ATA/100 7.2k rpm	P1641-63001	P1641-69001
	9.1 GB SCSI U2 7.2k rpm	D6463-63001	D6463-69001
	9.1 GB SCSI U160 7.2k rpm	D9475-63001	D9475-69001
	9.1 GB SCSI U160 10k rpm	P1575-63001	P1575-69001
	18 GB SCSI U160 7.2k rpm	D9476-63001	D9476-69001
	18 GB SCSI U160 10k rpm	P1576-63001	P1576-69001
	36 GB SCSI U160 10k rpm	P1577-63001	P1577-69001
	Optical drives:		
	DVD 8X IDE video drive	—	D4388-69002
	CD-ROM 48X IDE drive	D4389-63001	—
	CD-R/W 8X4X32X IDE drive	D4398-63051	D4398-69051
	Graphics cards & cables:		
	Elsa Synergy II, PCI	5065-0468	—
	Elsa Synergy II, AGP	—	D7992-69501
	Matrox Millennium G400-Dual, AGP	—	D8924-69501
	Matrox Millennium G250, AGP	5064-9191	—
	Matrox Millennium G200-Quad, PCI	—	D9536-69501
	3Dlabs Oxygen GVX1, AGP	—	D8366-69501
	Elsa Gloria II, AGP	—	D9543-69501
	Appian Jeronimo Pro Quad, PCI	—	D9534-69501
	Cable kit for Matrox G200-Quad Video (2 Y-cables for 4 monitors)	5184-3830	—
	Cable kit for Appian Jeronimo Pro video (1 cable for 4 monitors)	5184-3831	—
	HP 10/100 BaseT LAN card	5065-2523	—
	Intel LAN card	5065-1210	—
	3COM LAN card 3C905	5064-7429	—

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Parts List

Item	Description	Replacement Part Number	Exchange Part Number
	Input Devices: a Three-button mouse b Enhanced mouse with scroll/zoom wheel	 C4728-60101 C4736-60101	 — —
	Power cord	8120-xxxx	—
	Standard Keyboard Multimedia keyboard	C4739-601xx C4742-601xx	— —
	CR2032 battery (3V)	1420-0356	—

1.   For optional disk drive information, refer to the *Accessory Service Handbook*.

System Board

Description	Repl. Part Number	Exchange Part Number
System board:		
XM600 Series 2 system board	P2190-63001	P2190-69001
Processors (Socket):		
Intel Pentium III 800 MHz, 133 MHz FSB, 256 KB cache	D9872-63001	D9872-69001
Intel Pentium III 866 MHz, 133 MHz FSB, 256 KB cache	D9873-63001	D9873-69001
Intel Pentium III 933 MHz, 133 MHz FSB, 256 KB cache	D9486-63001	D9486-69001
Intel Pentium III 1 GHz, 133 MHz FSB, 256 KB cache	P1579-63001	P1579-69001
Socket Processor Heatsink (800, 866, 933 MHz)	5065-1297	—
Socket Processor Performance Heatsink (1000 MHz)	P1579-63101	—
Socket Processor Terminator	P2190-63101	—
Main memory modules		
1 x 64 MB, PC700 non-ECC RDRAM 1 x 128 MB, PC700 non-ECC RDRAM 1 x 256 MB, PC700 non-ECC RDRAM 1 x 128 MB, PC800 ECC RDRAM 1 x 256 MB, PC800 ECC RDRAM 1 x 512 MB, PC800 ECC RDRAM		D9500-69001 D9502-69001 D9503-69001 D9506-69001 D9507-69001 D9508-69001

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Manuals and Documentation

Description	Part Number	
Quick User's Guide (Minitower and Desktop)	5970-5050-xx	Paper document and electronic file
Minitower User's Guide		electronic file only
Minitower Troubleshooting Guide		electronic file only
Technical Reference Manual (Minitower and Desktop)		electronic file only
Online documentation (electronic files) can be downloaded from: http://www.hp.com/go/kayaksupport		

Software

Image Creation and Recovery CD-ROM for Windows NT and Windows 2000	5970-0330-xx[1]	—

1.   xx = Language code

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